

## PALM INTRANET

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US	20060427	Substrate-	29/740	29/739;	Kodama;	
20060085973		related-		294/64.2;	Seigo et al.	
Al		operation		700/900		
		performing				
		apparatus,				
		operation				
		performing head for		·		
		substrate-				
		related-				
		operation				
		performing				
		apparatus,				
		substrate-				
		related-				
		operation				
		performing				
		system, and				
		operation-				
		performing-				
		head-use				
		preparing				•
US	20050616	program Image taking	348/370		Suhara,	
20050128344	20030010	system,	340/3/0		Shinsuke et	
Al		image-taking-			al.	
		system				
		control				
		program, and				
		electric-				
		component				
		mounting				
TIO	20050215	system	261/600		C. I	-
US	20050217	Component information	361/600		Suhara, Shinsuke et	
20050036274 A1		applying			al.	
A I		method and			ai.	
		apparatus				
US	20040930	Calibration	250/559.29	250/559.33	Kodama,	1
20040188642		method and			Seigo et al.	
Al		device in				
		electronic				
		component				
		mounting				
		apparatus			•	
US	20030626	Electric-	174/535		Suhara,	1

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20020116220		I			Chimala
20030116339		component			Shinsuke
A1		mounting			
		system, and			
		printed-circuit			
		board			
		fabricating			
		process			
US	20030320	Electric-	361/760		Suhara,
20030053300		component			Shinsuke et
Al		supplying			al.
		apparatus and			
		method			
US	20030206	Substrate	361/600 .		Suhara,
20030026065		holding			Shinsuke
A1		device and			
		electric-circuit	·		
		fabricating			
		1	i		
US	20030123	process Electric-	29/832	29/740;	Suhara,
20030014862	20030123		29/032	29/740,	Shinsuke et
		component			· ·
Al		mounting		29/834	al.
		method and			
-		system		00/500	
US	20021212	Electric-	29/833	29/739;	Suhara,
20020184755		component		29/740;	Shinsuke
Al		mounting		29/834	
		system and			
		method of			
		detecting			
		positioning			
		error in the			
		system			
US	20021114	Electric-	361/728		Suhara,
20020167801		component			Shinsuke et
A1		mounting		!	al.
		system		1	
US ·	20021024	Printed-board	361/752		Suhara,
20020154491		supporting			Shinsuke
Al		device,			
		electric-			
		component			
		mounting			
	I	system, and	1		
		mroooge of		ľ	
		process of			
		process of manufacturing printed-circuit			

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		board			
US 20020144422 A1	20021010	Angular position adjusting device	33/613	33/1PT	Suhara, Shinsuke et al.
US 20020141166 A1	20021003	Fragile-board supporting method, circuit-board supporting device, and electric-circuit manufacturing method	361/752		Suhara, Shinsuke
US 20020138974 A1	20021003	Image taking system, image-taking-system control program, and electric-component mounting system	29/740	29/833; 382/141; 382/151	Suhara, Shinsuke et al.
US 20020133940 A1	20020926	Electric- component supplying method and device, and electric- component mounting method and system	29/832	29/740; 29/771	Kadomatsu, Sumio et al.
US 20020124393 A1	20020912	Electric- component mounting system	29/740	29/743	Suhara, Shinsuke et al.
US 20020124391 A1	20020912	Apparatus for assisting operator in performing manual operations in connection with	29/739	29/740; 29/834	Kawai, Takayoshi et al.

		component feeders			
US 20020083579 A1	20020704	Electric- component mounting system and method	29/739	29/593; 29/743; 29/833	Suhara, Shinsuke et al.
US 20020053133 A1	20020509	Electric- component mounting apparatus	29/700		Suhara, Shinsuke et al.
US 20020029468 A1	20020314	Method of supplying electric component, and electric- component mounting system	29/832	29/740; 29/743; 29/834	Koike, Hirokazu et al.
US 20020027207 A1	20020307	Suction nozzle, and electric- component- position detecting apparatus	250/559.29		Suhara, Shinsuke et al.
US 20020014003 A1	20020207	Method and system for mounting electric components	29/740	29/739; 29/832; 29/833	Asai, Koichi et al.
US 20020000359 A1	20020103	Circuit- substrate- related- operation performing system	198/346.2		Asai, Koichi et al.
US 20010047586 A1	20011206	Electric- component mounting method, electric- component treating method, and electric-	29/833	29/740	Kawai, Takayoshi et al.

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		component mounting apparatus			
US 20010047581 A1	20011206	Electric- component mounting apparatus and electric- component mounting system	29/740	29/743; 294/68.2	Suhara, Shinsuke
US 20010037564 A1	20011108	Circuit component mounting system and circuit component mounting method	29/832	29/740; 29/742; 29/836	Asai, Koic et al.
US 20010035659 A1	20011101	Electric- component holding head	294/64.1		Suhara, Shinsuke
US 20010025413 A1	20011004	Circuit- component mounting mehtod and circuit- component mounting system	29/832	29/593; 29/833	Asai, Koic et al.
US 20010018798 A1	20010906	Circuit- component supplying apparatus, feeder, and ciruit- component supplying method	29/832	29/740; 414/222.01	Asai, Koic et al.
US 20010002509 A1	20010607	Electric- component supplying method and apparatus and electric- component	29/834	29/740; 29/832	Suhara, Shinsuke

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		mounting apparatus			
US 7102148 B2	20060905	Calibration method and device in electronic component mounting apparatus	250/559.44	250/559.3; 29/833; 348/87; 700/121	Kodama; Seigo et al.
US 7043824 B2	20060516	Electric- component mounting system	29/740	211/1.51; 211/1.52; 248/200; 248/300; 29/741; 29/742; 29/759; 29/831; 29/832; 361/728	Suhara; Shinsuke et al.
US 7043820 B2	20060516	Electric- component mounting system	29/564.1	29/739; 29/740; 29/741; 29/742; 29/743	Suhara; Shinsuke
US 6958917 B2	20051025	Substrate holding device and electric-circuit fabricating process	361/801	361/740; 361/741; 361/747; 361/759; 361/802	Suhara; Shinsuke
US 6952869 B2	20051011	Electric- component mounting system for mounting electric component on a circuit substrate	29/740	29/720; 29/739; 29/832; 29/833	Suhara; Shinsuke et al.
US 6941646 B2	20050913	Electric- component mounting system	29/740	29/739; 29/759	Suhara; Shinsuke
US 6931716 B2	20050823	Electric- component mounting	29/740	29/720; 29/721; 29/741;	Suhara; Shinsuke et al.

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		system		29/833;	
				29/DIG.44;	
US 6918730 B2	20050719	Apparatus for assisting	414/183	382/141 414/278; 414/937	Kawai; Takayoshi
,		operator in performing manual operations in connection with component feeders			et al.
US 6870745 B2	20050322	Printed-board supporting	361/807	29/740; 29/741;	Suhara; Shinsuke
		device,		29/744;	Simisure
		electric- component		361/720; 361/760;	
		mounting		361/803	
		system, and process of			
		manufacturing			
		printed-circuit board			
US 6864431	20050308	Fragile-board	174/138D	29/760;	Suhara;
B2		supporting method,		29/762; 361/742;	Shinsuke
		circuit-board		361/770;	
		supporting device, and		361/807	
		electric-circuit	·		
		manufacturing method			
US 6807725 B2	20041026	System for mounting of	29/740	29/720; 29/739;	Asai; Koichi et al.
		electric		29/832;	ct ai.
HO (7/0172	20040002	components	20/740	29/834	Cuhara
US 6769172 B2	20040803	Electric- component	29/740	29/721; 29/741;	Suhara; Shinsuke et
		mounting		29/742;	al.
		system		29/743; 29/832;	
				29/833;	
				29/DIG.44; 414/737	
US 6739036	20040525	Electric-	29/743	29/720;	Koike;

B2	20040210	component mounting system	22/612	29/721; 29/740; 29/741; 29/742; 29/833; 29/834; 29/DIG.44; 294/64.1; 414/737; 901/47	Hirokazu et al.
US 6688016 B2	20040210	Angular position adjusting device	33/613	269/153; 33/1M; 33/1PT; 33/618; 33/626; 33/642; 33/645; 33/832; 33/833	Suhara; Shinsuke et al.
US 6665928 B2	20031223	Method for mounting electric components with a mounting device	29/834	226/110; 226/139; 29/426.3; 29/740; 29/741; 29/743; 29/832; 29/833; 414/403	Suhara; Shinsuke
US 6662438 B2	20031216	Electric- component mounting apparatus	29/743	29/721; 29/739; 29/740; 29/741; 29/DIG.44; 414/737	Suhara; Shinsuke et al.
US 6649926 B2	20031118	Suction nozzle, and electric- component- position detecting apparatus	250/559.29	250/559.4; 414/752.1	Suhara; Shinsuke et al.
US 6643921 B2	20031111	Circuit- component mounting method and circuit-	29/833	29/740; 29/759; 29/832	Asai; Koichi et al.

		component mounting system			
US 6629364 B2	20031007	Method of supplying circuit components using a feeder	29/832	29/740; 29/834	Asai; Koichi et al.
US 6625877 B1	20030930	Apparatus for supporting electric-component mounter	29/740	248/638; 29/705; 29/739	Suhara; Shinsuke et al.
US 6527322 B2	20030304	Electric- component holding head	294/64.1	29/743; 901/40	Suhara; Shinsuke
US 6507997 B2	20030121	Electric- component mounting method, electric- component treating method, and electric- component mounting apparatus	29/833	29/721; 29/740; 29/743	Kawai; Takayoshi et al.
US 6491250 B1	20021210	Rotary-type circuit-component supplying apparatus	242/559.1	242/558; 242/559.2; 242/566; 29/740; 414/223.01; 414/403	Asai; Koichi et al.
US 6437333 B1	20020820	Holding apparatus, transferring apparatus, image taking system, and image taking method	250/341.1	250/341.7	Suhara; Shinsuke et al.
US 6409159 B1	20020625	Method of supporting printed circuit board and	267/152	248/636; 248/638; 267/136; 361/600;	Asai; Koichi et al.

			1	261/226	
		method of		361/736;	
		mounting		361/748;	
		electric		361/767;	
		components		361/807	
US 6382390	20020507	Electronic-	198/346.1	198/349.6;	Asai; Koichi
B1		component		414/806	et al.
		supplying			
		apparatus and			
		method			
110 (200527	20020420		250/220	250/200 1	6.1
US 6380537	20020430	Holding head	250/239	250/208.1	Suhara;
B1					Shinsuke et
					al
US 6378198	20020430	Circuit-	29/825	198/346.2;	Asai; Koichi
B1		substrate-		198/369.1;	et al.
		related-		198/447;	
		operation		198/817	
		performing	ļ		
		system			
US 6336548	20020108	Apparatus for	198/468.4	198/468.2;	Asai; Koichi
	20020108	1	190/400.4	1 '	1 '
B1		positioning		198/476.1;	et al.
		electronic		198/477.1;	
		component		198/803.5	
		holder head			
		and apparatus			
		for			
		transferring			
		electronic			
		component			
US 6332387	20011225	Cover-tape	83/100	221/25;	Suhara;
B1	20011223	treating	03/100	83/102;	Shinsuke
151		method and		83/694	Simisure
				83/094	
		apparatus and			
		electric-			
		component			
		supplying unit			
US 6327776	20011211	Circuit	29/832	29/830;	Suhara;
B1		component		29/831;	Shinsuke
		mounting		29/839;	
		system and		29/842;	
		circuit		29/846	
		component		]	
		mounting			
		method			
110 (217072	20011120		20/922	20/407.04	Annie Maiaki
US 6317972	20011120	Method for	29/833	29/407.04;	Asai; Koichi
B1		mounting and		29/720;	et al.
		inspecting the		29/740;	

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		mounting of electric components		29/832	
US 6286202 B1	20010911	System for mounting a plurality of circuit components on a circuit substrate	29/740	29/593; 29/832; 29/833	Asai; Koichi et al.
US 6272737 B1	20010814	Circuit component mounting system	29/740	198/369.1; 198/890.1; 29/739; 29/742; 29/783; 29/786; 29/791; 29/793; 29/794; 29/822; 29/832; 29/834	Asai; Koichi et al.
US 6260260 B1	20010717	Apparatus for supplying electronic components to a circuit board manufacturing apparatus	29/740	226/110; 226/139; 29/426.3; 29/429; 29/741; 29/743; 29/832	Suhara; Shinsuke
US 6256870 B1	20010710	Circuit- component supplying apparatus having a vibration- resistant feeder	29/740	29/739; 29/741; 29/743; 29/832; 29/DIG.44	Asai; Koichi et al.
US 6189206 B1	20010220	Rotary-type circuit-component supplying apparatus	29/740	104/35; 29/714; 414/223.01; 414/403	Asai; Koichi et al.
US 6170633 B1	20010109	Electronic- component supplying	198/346.1	198/348; 198/349.6	Asai; Koichi et al.

		apparatus and method			
US 6168009 B1	20010102	Apparatus for positioning electronic component holder head and apparatus for transferring electronic component	198/468.4	198/468.2; 198/476.1; 198/477.1; 198/803.5	Asai; Koichi et al.
US 6161811 A	20001219	Apparatus for supporting electric-component mounter	248/638	248/568; 248/636	Suhara; Shinsuke et al.
US 6161277 A	20001219	Circuit- component mounting system	29/740	198/586; 29/741; 29/832	Asai; Koichi et al.
US 6108900 A	20000829	Circuit component mounting system	29/739	29/711; 29/740; 29/741; 29/743	Suhara; Shinsuke
US 6085893 A	20000711	Circuit- component transferring apparatus	198/377.08	198/471.1; 198/803.5	Asai; Koichi et al.
US 6073342 A	20000613	Circuit- substrate- related- operation performing system	29/740	198/586; 29/759	Asai; Koichi et al.
US 6047874 A	20000411	Method and system for supplying circuit components	226/110	242/594.2; 242/615.21; 29/740	Asai; Koichi et al.
US 6000523 A	19991214	Circuit- component transferring apparatus	198/377.08	198/378; 198/471.1; 29/740	Asai; Koichi et al.
US 5988353 A	19991123	Circuit- component	198/468.4		Asai; Koichi et al.

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		transferring apparatus			
US 5294035 A	19940315	Ratchet device having a stopper member for preventing excessive rotation of ratchet wheel, and tape feeding apparatus using the ratchet device	226/157	74/128; 74/142; 74/577M; 74/577S	Asai; Koichi et al.